# STIC Search Report
## Biotech-Chem Library

USPTO

## STIC Database Tracking Number: 146005

TO: Emily M Le
Location: 3c35/3c18
Art Unit: 1648
Friday, February 25, 2005

Case Serial Number: 10/009473

From: Noble Jarrell
Location: Biotech-Chem Library
Rem 1B71
Phone: 272-2556

Noble.jarrell@uspto.gov

## Search Notes

146005    crff

**Jarrell, Noble**

| | |
|---|---|
| **From:** | Le, Emily |
| **Sent:** | Wednesday, February 23, 2005 5:17 PM |
| **To:** | Jarrell, Noble |
| **Subject:** | Sequence search: 10/009473 |

Noble,

please provide a sequence search of SEQ ID NO: 2. thank you.

Emily
Office, Rem 3C35
Mailbox, Rem 3C18
Tel., 2-0903

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| | | cytokine ((interleukin IFN "tumor necrosis factor) TNF) same MPL) | US-PGPUB; USPAT | OR | ON | 2005/02/25 18:58 |
| L2 | 3 | monophosphoryl same cytokine | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 17:56 |
| L3 | 157 | monophosphoryl same cytokine | USPAT; USOCR | OR | ON | 2005/02/25 17:56 |
| L4 | 157 | "monophosphoryl lipid" same cytokine | USPAT; USOCR | OR | ON | 2005/02/25 18:15 |
| L5 | 1 | ("6350456").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/25 18:57 |
| L6 | 478 | cytokine and ((interleukin IFN "tumor necrosis factor" TNF) same MPL) | US-PGPUB; USPAT | OR | ON | 2005/02/25 18:58 |
| L7 | 188 | cytokine and ((interleukin IFN "tumor necrosis factor" TNF) same MPL) | USPAT | OR | ON | 2005/02/25 18:58 |
| L8 | 15 | cytokine and ((interleukin IFN "tumor necrosis factor" TNF) same "3D-MPL") | USPAT | OR | ON | 2005/02/25 19:02 |
| L9 | 0 | wo-9857659-$.did. | USPAT | OR | ON | 2005/02/25 19:02 |
| L10 | 2 | wo-9857659-$.did. | USPAT; EPO; JPO; DERWENT | OR | ON | 2005/02/25 19:26 |
| L11 | 0 | "Oil-in-Water is" | USPAT; EPO; JPO; DERWENT | OR | ON | 2005/02/25 19:26 |
| L12 | 0 | "Oil-in-Water is" | USPAT | OR | ON | 2005/02/25 19:26 |
| L13 | 0 | "Oil-in-Water is" | US-PGPUB; USPAT | OR | ON | 2005/02/25 19:26 |
| L14 | 23456 | "Oil-in-Water" | US-PGPUB; USPAT | OR | ON | 2005/02/25 19:26 |
| L15 | 16280 | "Oil-in-Water" | USPAT | OR | ON | 2005/02/25 19:26 |
| L16 | 7176 | "Oil-in-Water" | US-PGPUB | OR | ON | 2005/02/25 20:22 |
| L17 | 0 | gb-9712347$.an. | EPO | OR | ON | 2005/02/25 20:45 |
| L18 | 6 | Hagen-Michael$.inv. | EPO | OR | ON | 2005/02/25 20:45 |
| L19 | 13 | Hagen-Michael$.inv. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 20:45 |
| L20 | 1 | 19 and monophosphoryl | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 20:45 |

| L21 | 1 | 19 and MPL | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 20:46 |
|---|---|---|---|---|---|---|
| L22 | 0 | 21 not 20 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/02/25 20:46 |
| S1 | 0 | $3MPL same "gs-csf" | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:19 |
| S2 | 898 | $3MPL and "granulocyte macrophage" | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:19 |
| S3 | 1415 | $3MPL and "granulocyte" | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:19 |
| S4 | 43 | $3MPL same "granulocyte macrophage" | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:25 |
| S5 | 84 | $3MPL same "granulocyte" | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:19 |
| S6 | 25 | "monophosphoryl Lipid" same "granulocyte macrophage" | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:30 |
| S7 | 16 | S6 not S4 | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:26 |
| S8 | 0 | "monophosphoryl Lipid" same "gs-csf" | US-PGPUB; USPAT | OR | ON | 2005/02/23 18:30 |
| S9 | 0 | "monophosphoryl Lipid" same "gs-csf" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:30 |
| S10 | 1 | "monophosphoryl Lipid" same "granulocyte macrophage" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:30 |
| S11 | 1 | "monophosphoryl Lipid" and "granulocyte macrophage" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:32 |
| S12 | 0 | "3D-MPL" and "granulocyte macrophage" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:31 |
| S13 | 0 | "3D-MPL" and "granulocyte" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:31 |
| S14 | 2 | MPL and "granulocyte" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:31 |
| S15 | 1 | ("6066318").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/23 18:32 |

| S16 | 1 | "monophosphoryl Lipid" and "granulocyte" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:32 |
|-----|---|-------------------------------------------|----------------------------------|-----|-----|-------------------|
| S17 | 1 | "monophosphoryl Lipid" and granulocyte | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/23 18:34 |
| S18 | 1 | ("6,613,337").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/23 18:34 |
| S19 | 32 | "monophosphoryl lipid" same ("granulocyte") "stimulating factor" | US-PGPUB; USPAT | AND | ON | 2005/02/25 14:03 |
| S20 | 12 | "monophosphoryl lipid" same ("granulocyte") "stimulating factor" | USPAT | AND | ON | 2005/02/25 14:51 |
| S21 | 1 | "monophosphoryl lipid" same ("granulocyte") "stimulating factor" | USOCR; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/02/25 14:04 |
| S22 | 1 | ("5013548").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/25 14:51 |
| S23 | 1 | ("5019387").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/25 14:51 |
| S24 | 1 | ("6066318").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/25 14:53 |
| S25 | 305 | "3d-mpl" | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:53 |
| S26 | 1 | S25 same granulocyte | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:54 |
| S27 | 17 | S25 and granulocyte | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:54 |
| S28 | 0 | S27 not S25 | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:55 |
| S29 | 288 | S25 not S27 | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:55 |
| S30 | 0 | S26 not S27 | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:55 |
| S31 | 0 | S27 not S25 | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:55 |
| S32 | 16 | S27 not S26 | US-PGPUB; USPAT | OR | ON | 2005/02/25 14:58 |
| S33 | 0 | S27 not S26 | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 14:58 |

| S34 | 0 | "3d-mpl" and granulocyte | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:01 |
|---|---|---|---|---|---|---|
| S35 | 33 | "3d-mpl" | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:00 |
| S36 | 2 | ("0575110").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/25 15:00 |
| S37 | 1 | ("5750110").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/02/25 15:00 |
| S38 | 0 | "3d-mpl" and GM-CSF | USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:01 |
| S39 | 156 | "3d-mpl" and GM-CSF | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:01 |
| S40 | 32 | "3d-mpl" same GM-CSF | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:18 |
| S41 | 0 | "3d-mpl" same GMCSF | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:18 |
| S42 | 0 | "3D-MPLI" same GMCSF | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:18 |
| S43 | 0 | "3D-MPLI" same GM-CSF | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:18 |
| S44 | 46 | "3d-MPL" same ("GM-CSF" granulocyte cytokine) | US-PGPUB; USPAT | OR | ON | 2005/02/25 16:06 |

| S45 | 0 | "3d-MPL" same ("GM-CSF" granulocyte cytokine) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:27 |
|------|------|------|------|------|------|------|
| S46 | 11 | "MPL" same ("GM-CSF" granulocyte cytokine) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:29 |
| S47 | 0 | ep-0689454-$.did. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:29 |
| S48 | 0 | ep-00689454-$.did. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:29 |
| S49 | 0 | ep-06089454-$.did. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:29 |
| S50 | 0 | ep-0671948-$.did. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:30 |
| S51 | 2 | wo-9856414-$.did. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 15:32 |
| S52 | 1 | wo-9517210-$.did. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/25 17:54 |
| S53 | 2 | ("5013548" "5019387").pn. | US-PGPUB; USPAT | OR | ON | 2005/02/25 15:59 |
| S54 | 0 | wo-9714436-$.did. | US-PGPUB; USPAT | OR | ON | 2005/02/25 15:59 |
| S55 | 0 | wo-97014436-$.did. | US-PGPUB; USPAT | OR | ON | 2005/02/25 15:59 |
| S56 | 0 | wo-97014436-$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/02/25 15:59 |
| S57 | 2 | wo-9714436-$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/02/25 16:00 |
| S58 | 2 | "5993819".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/02/25 16:00 |

OM protein - protein search, using sw model

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GenCore version 5.1.6

Run on:      February 24, 2005, 07:21:27  ; Search time 70 Seconds
                                          (without alignments)
                                          215.481 Million cell updates/sec

Title:          US-10-009-473-2
Perfect Score:  213
Sequence:       1 KQIINMWQEVGKAMYATRPNYNVKRIHIGPGRAFYTTK 39
Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5
Searched:       2105692 seqs, 386760381 residues
Total number of hits satisfying chosen parameters:     2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%

*(handwritten)* Result No. 1 of rag search

*(handwritten)* Sequence Search Result, page 1 of 2.

ALIGNMENTS

RESULT 1
AAW32957

ID   AAW32957 standard; peptide; 39 AA.
XX
AC   AAW32957;
XX
DT   23-JAN-1998  (first entry)
XX
DE   C3-V3 MN immunogen construct.
XX
KW   Immunogen; antigenic determinant; HIV; envelope; glycoprotein; env; gp;
KW   recognition; B lymphocyte; type specific; antibody; vaccine; protection;
KW   immune response; infection; neutralisation.
XX
OS   Human immunodeficiency virus
OS   *(synthetic)*
XX
PN   WO9744436-A1.
XX
PD   24-APR-1997.

*(handwritten)* = U.S Patent No. 5,993,819.

XX
PF   18-OCT-1996;  96WO-US016911.
XX
PR   20-OCT-1995;  95US-005465515.
PR   09-FEB-1996;  96US-00599266.
XX
PA   (UYDU-) UNIV DUKE.
XX
PI   Haynes BF, Palker TJ;
XX
PT   WPI; 1997-244862/22.
XX
DR   Synthetic human immunodeficiency virus vaccine - comprising hydrophilic
PT   peptide corresponding to at least 1 antigenic determinant of envelope
PT   glyco:protein recognised by B lymphocytes.
XX
PS   Example 11; Page 60j; 104pp; English.
XX
CC   The present sequence, which comprises at least 1 antigenic determinant of
CC   human immunodeficiency virus (HIV) envelope (env) glycoprotein (gp)
CC   recognised by B lymphocytes, when covalently linked to a carrier
CC   molecule, induces the production of high titres of protective, type
CC   specific anti-HIV antibodies (Ab) in a mammal. The peptide can be used in
CC   vaccines for producing a protective immune response to HIV infection,
CC   while a HIV neutralising Ab can be induced in a primate by administering
CC   a composition comprising HIV env peptides that disrupt gp120/gp41
CC   interactions

| 26  | 187   | 87.8 | 39 | 2 | Aaw32964 | Aaw32964 | C3-V3 JRF |
| 27  | 184   | 86.4 | 39 | 2 | AAW32960 | AAW32960 | C3-V3 JH3 |
| 28  | 184   | 86.4 | 39 | 2 | AAW32962 | AAW32962 | C3-V3 BAL |
| 29  | 182   | 85.4 | 39 | 2 | AAW32963 | AAW32963 | C3-V3 JRC |
| 30  | 180   | 84.5 | 39 | 2 | AAW32973 | AAW32973 | C3-V3 ADA |
| 31  | 179   | 84.0 | 39 | 2 | AAW32972 | AAW32972 | C3-V3 HAN |
| 32  | 178   | 83.6 | 39 | 2 | AAW32965 | AAW32965 | C3-V3 OYI |
| 33  | 176   | 82.6 | 39 | 2 | AAW32966 | AAW32966 | C3-V3 SP2 |
| 34  | 176   | 82.6 | 39 | 4 | AAU12549 | AAU12549 | HIV polyv |
| 35  | 176   | 82.6 | 39 | 5 | AAU70260 | AAU70260 | HIV polyv |
| 36  | 176   | 82.6 | 39 | 5 | AAW32961 | AAW32961 | C3-V3 ALA |
| 37  | 175   | 82.2 | 39 | 2 | Aaw16527 | Aaw16527 | Peptide ( |
| 38  | 174.5 | 81.9 | 35 | 2 | AAW16527 | AAW16527 | Peptide ( |
| 39  | 174.5 | 81.9 | 35 | 7 | ABO01835 | ABO01835 | HIV-MN en |
| 40  | 174.5 | 81.9 | 47 | 2 | AAR40202 | AAR40202 | HIV-MN en |
| 41  | 174.5 | 81.9 | 47 | 2 | Aaw16529 | Aaw16529 | Peptide ( |
| 42  | 174.5 | 81.2 | 47 | 7 | ABO01837 | ABO01837 | HIV MN en |
| 43  | 173   | 79.8 | 39 | 2 | AAW32958 | AAW32958 | C3-V3 BRV |
| 44  | 170   | 79.8 | 39 | 5 | AAW32959 | AAW32959 | C3-V3 SC  |
| 45  | 170   | 79.8 | 39 | 6 | ABP59725 | ABP59725 | HIV immun |
|     | 170   | 79.8 | 8  |   | ADR58051 | Adr58051 | Novel ant |

SQ    Sequence 39 AA;

Query Match        100.0%;  Score 213;  DB 2;   Length 39;
Best Local Similarity  100.0%;  Pred. No. 4.2e-19;
Matches  39;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy    1 KQIINMWQBVGKAMYATRPNYNKRKRIHIGPGRAFYTTK 39
        |||||||||||||||||||||||||||||||||||||||
Db    1 KQIINMWQBVGKAMYATRPNYNKRKRIHIGPGRAFYTTK 39

RESULT 2
.........

Result No. 1 of rag
Sequence Search Summary, page 2 of 2.